

for: NIMA/NTB - Image Compression Symposium II

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NITF/NSIF JPEG 2000 Supported

 Paragon has completed development and will release NITF/NSIF JPEG 2000 implementation with the following products in Q4 of 2003:

The ELT Series

- ELT/5500 Pro (classified)
- ELT/5500
- ELT/3500
- ELT/1500





Paragon's JPEG 2000 Support

- Read NITF/NSIF files with embedded JPEG 2000 (JP2 and JPC)
- Write NITF/NSIF files with embedded JPEG 2000 images (JP2)
- Read/Write NITF J2KLRA tags
 - The ELT Series shall use the "20 layer strategy"
 - The ELT Series shall always write a valid JPEG J2LRA tag





Paragon's JPEG 2000 Support...

- Read/Write NITF/NSIF multispectral images with band imaging
- Read/Write support for up to 16 bits per pixel per band
- Write tiled images (1K by 1K tile size*)
 - Works well for both small and large images
- Write using either lossless or lossy compression





Paragon's JPEG 2000 Support...

- Write up to 20 layers using bit rates defined in the NITF JPEG 2000 specification:
 - Min = 20 layers (5.7 bpppb) lossless
 - Low = 19 layers (4.6 bpppb) visually lossless
 - Medium = 15 layers (2.0 bpppb)
 - High = 10 layers (1.0 bpppb)
 - Max = 5 layers (0.5 bpppb)





Paragon's JPEG 2000 Support...

- Read standalone JPEG 2000 and JPEG 2000 compressed files
- Write standalone JPEG 2000 files
 - Maximum 3 bands and 8 bpppb

Questions...

